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Disposable GXP Mixing Elements made of Plastics

Mixing Elements GXP-9.3-PP (white or orange)

Made of polypropylene

Mechanical strength:
Up to a ΔP of 80 bar / ME at room temperature

Mixing Elements GXP-9.3- PA6.6+50%GF (black)

Made of polyamide PA66 reinforced with 50% glass fibres

Mechanical strength:
Up to a ΔP of 250 bar / ME at room temperature

- For difficult to mix and/or disperse viscous liquid systems like 2-K-adhesives, -sealing compounds, -varnishes, silicones, etc.
- Very efficient for cases with large difference in viscosity or extreme flow rate ratios
  → Short mixer length and with a small volume
- Excellent mixing efficiency per unit length (-> shorter vs. Helix or square Multiflux type mixers)
- Problem solver where other type of mixer reached their limit

The GXP-9.3 mixing element (= ME) is the first one made in series by injection moulding from plastics. It is made of polypropylene PP and in PA66+50%GF (for installation into a tube see reverse side) and has a length and a diameter of 9.3 mm each.

Figure#1: Disposable STAMIXCO Mixer GXP-9.3-PP

The tube and mixing elements of the disposable STAMIXCO mixer shown in Figure#1 is made of resistant PP. The tube length allows to contain up to 20 disposable mixing element GXP-9.3. Different pipe length tubes are under development and should be soon available for use. The mixing elements GXP-9.3-P are made in two colors (white and orange) for easier check of the correct installation in the tube (the bars of the elements have to be offset by 90° to each other). See reverse side.

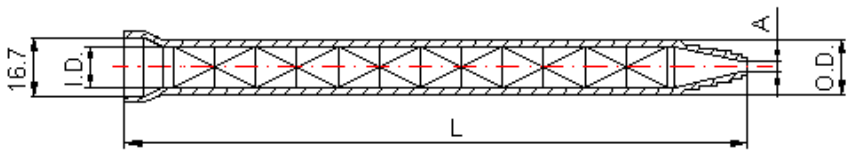

Figure #2: Disposable STAMIXCO Mixer

Type of Mixing Element	D inside I.D. mm	No. of GXP - ME n	D outside O.D. mm	Length L mm	D Nozzle A mm
GXP-PP or GXP-PA66+50%GF	10.0	20	12.7	215	3

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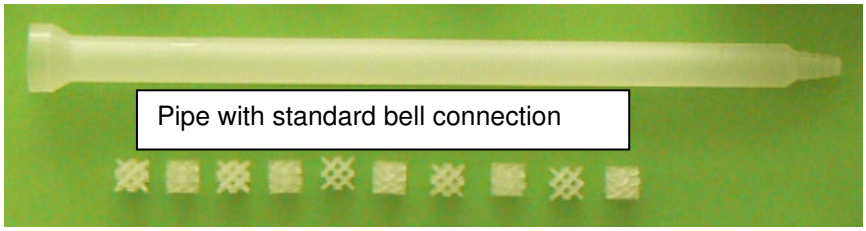
The GXP mixing element are usually applied in form of disposable mixers for mixing 2-K-adhesives, 2-K-sealing compounds and 2-K-varnishes for spraying and casting applications in surface treatment, the civil construction and other industries.

Installation of GXP Disposable Static Mixing Elements

1 GXP Mixing Element (= ME) DN-9.3

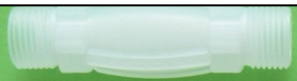
Adjacent mixing elements have to be turned by 90° relative to the other one



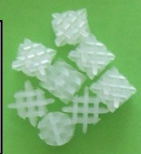
ΔP max. indicated in this sheet are for operating conditions @ room temperature

Pipe made of Polypropylene for 6 ME, p op. max. = 50 bar

Pipe made of PA6.6 + 50% GF for 6 ME, p op. max. = 100 bar



ME made of PP, ΔP max. of ME = 80 bar



ME made of PA6.6 + 50% GF, ΔP max. of ME = 250 bar

Combination of the plastic tubes or their connection to other pipes can be made by using e.g. Ermeto/Parker Fluid Connectors 12L series (cutting ring fittings, M 18x1.5mm)